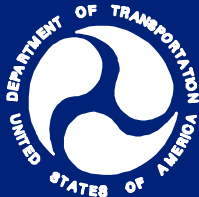


# ELECTRIC VEHICLES

## Linking Federal and Local Objectives

Sacramento, California  
January 31, 1996

EV Market Launch

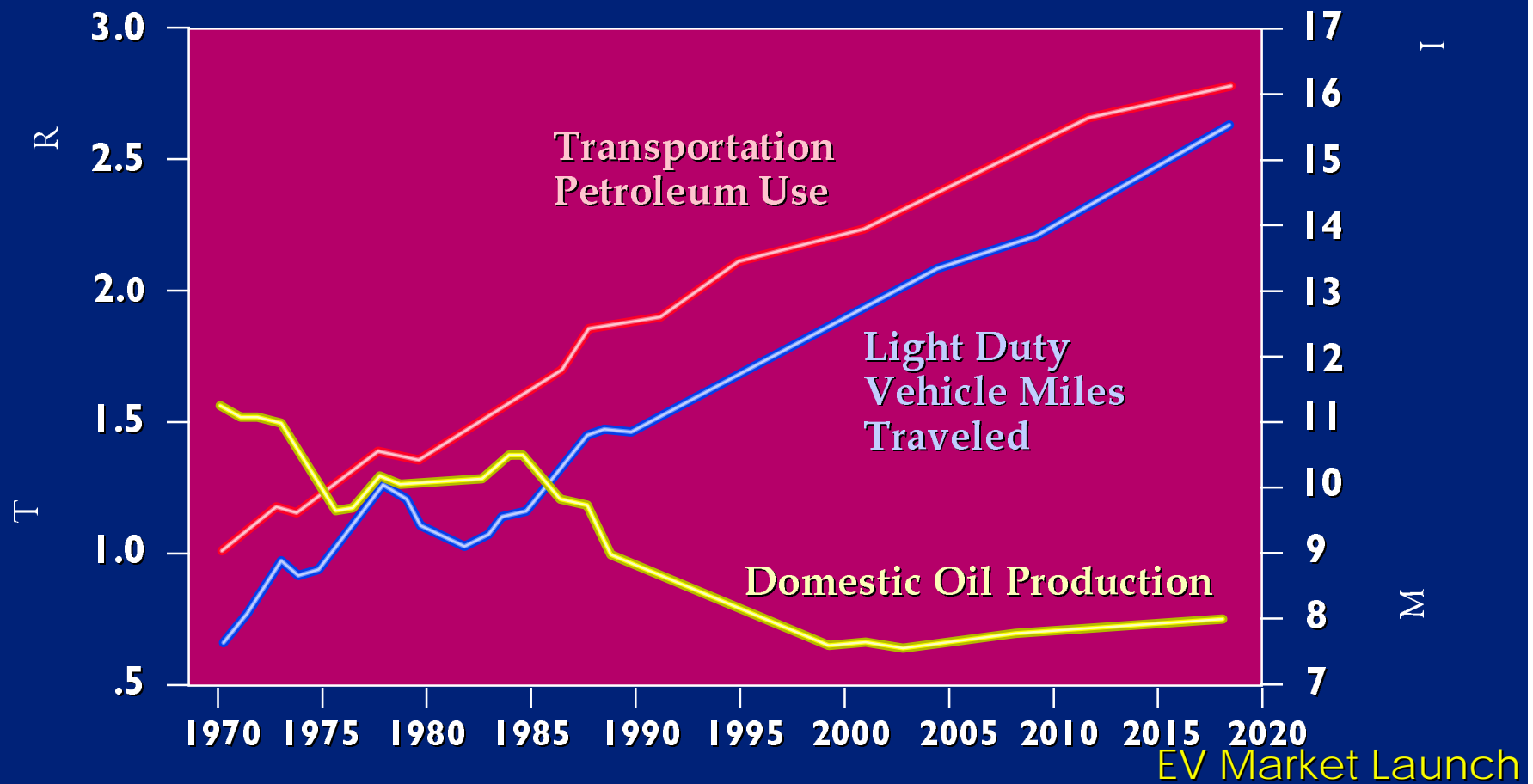


EV Market Launch

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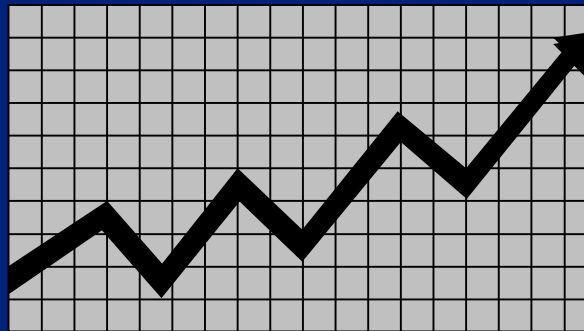
# Petroleum Dependence Trends





## Energy Policy Act Alternative Fuel Goals

- 10% U.S. Motor Fuel Consumption to be Alternative Fuels by 2000
- 30% U.S. Motor Fuel Consumption to be Alternative Fuels by 2010



# Steps to EV Deployment

- Research & Development
- Prototyping
- Utilization
- Testing
- Public Awareness
- Infrastructure Development
- Commercialization

# Federal EV Programs



- Advanced Batteries
- Light-duty Vehicles R&D
- Field-testing
- Infrastructure
- Deployment



- Policy research
- Safety research
- EV bus program
- CMAQ funding

# Department of Energy EV Market Launch - 1996

- EV Field Operations
- Fleet Leadership
- Clean Cities



# EV Field Operations

- Baseline Testing
- Field/Reliability Testing
- Infrastructure Development/Evaluation

# EV Field Operations Baseline Testing - 1996

- Testing of 8 -10 New Vehicles
- OEM Vehicles
- QVM Vehicles
- Some Conversions
- Focus on Vehicles with Advanced Batteries



# EV Field Operations

## Field Testing/Reliability - 1996

- Complete Field Testing of 15 Conversion Vehicles
- Procure & Test up to 10 New Vehicles (depending on availability)
- Reliability and Life-cycle Testing of Advanced Batteries when Available

# EV Field Operations

## Infrastructure Development/Evaluation - 1996

- Cooperative effort with EPRI on charger test evaluation for the Infrastructure Working Council
- Clean Cities/"EV-Ready" City Workshops
- Southern California Economic Partnership
- International Energy Agency

# Fleet Leadership

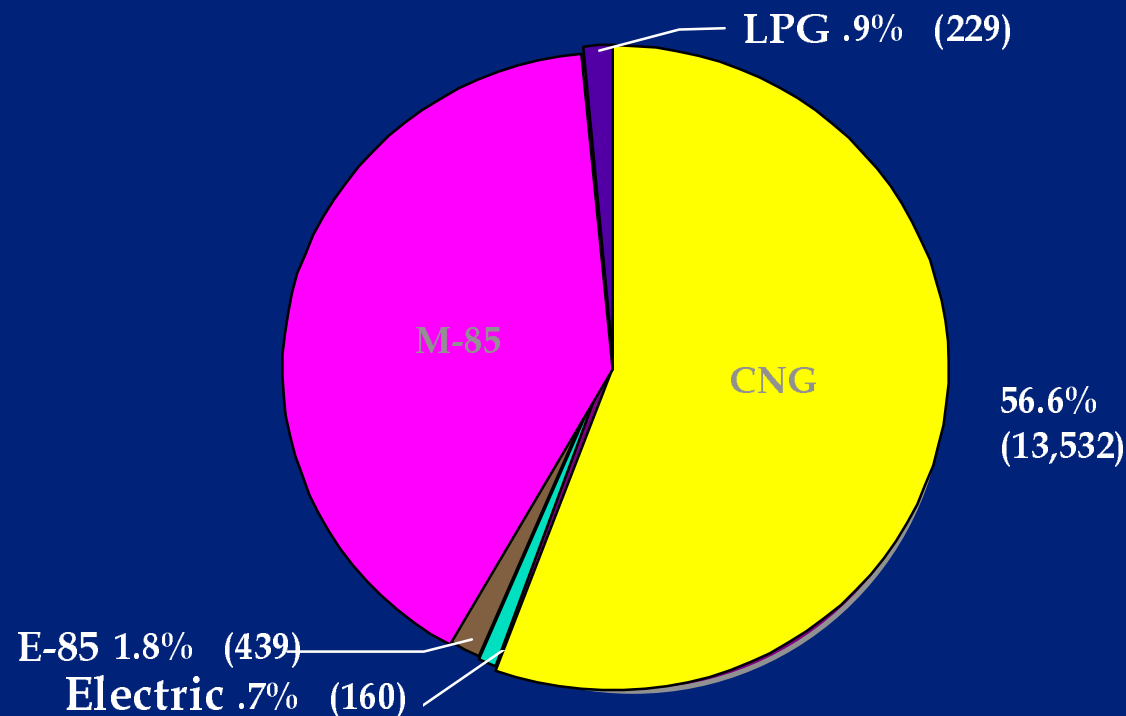
## *Promoting AFV/EV Acquisition*

- |                      |           |
|----------------------|-----------|
| ■ Federal Government | 1993      |
| ■ State Government   | 1996      |
| ■ Fuel Providers     | 1996      |
| ■ Local Government   | Voluntary |
| ■ Private            | Voluntary |



# Federal Fleet AFVs At End Of Fiscal Year 1995

TOTAL: 23,905



EV Market Launch

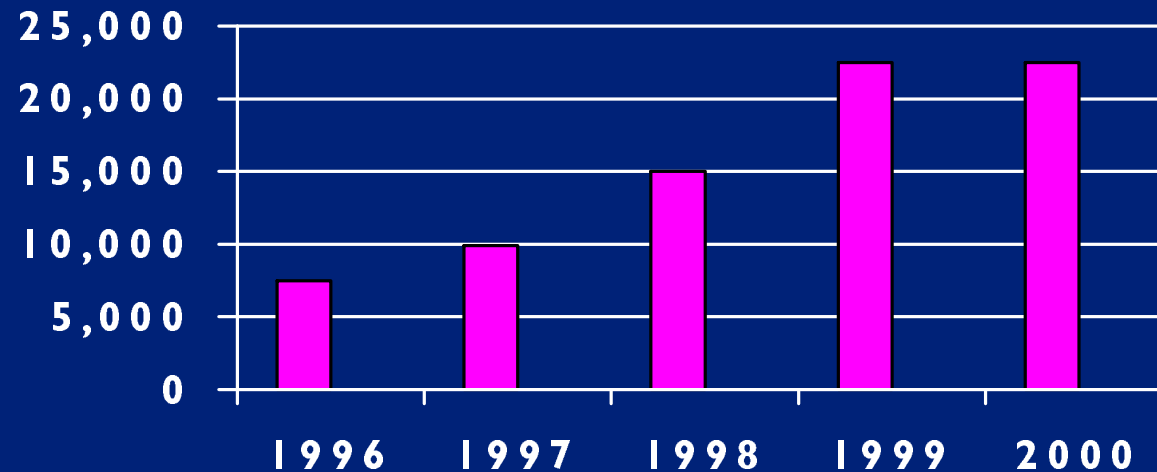
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## EVs for Federal Agencies

- DOE - \$2 Million
- DOD - \$5 Million
- GSA Solicitation
- Light trucks and sedans (if available)
- Proposed Executive Order

# Federal AFV Acquisitions

## Fiscal Years 1996-2000



***Requirement:***

***25%***

***33%***

***50%***

***75%***

***75%***

---

EV Market Launch

# Clean Cities



**U.S. Department of Energy**

EV Market Launch

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# Designated Clean Cities



EV Market Launch





## What is *Clean Cities*?

- Community planning to create an alternative fuels market
  - ▶ Local needs - local initiative
  - ▶ Partnerships
- Supports technologies in transition
- Promotes market sustainability



## Clean Cities & Evs

- 10 "EV-Ready" City Workshops
- Technical Assistance
- National Network
- Public Information Resources
- Funding Assistance
- National Conference (June 18-21, Atlanta, GA)



## Clean Cities Funding Assistance

- State and Local Incentives Programs
  - ▶ State Energy Program -1996
- Pilot Program -1995
  - ▶ \$2.1 Million / 19 State Projects
- Community Assistance
- EPACT Tax Credits and Deductions

# Department of Transportation EV Market Launch - 1996

- National Strategy
- EV Bus Program
- ISTEA Funding



# Department of Transportation Strategic Goals

- Safe, efficient transportation system
- Promotes economic growth
- Contributes to healthy & secure environment



# Federal Transit Administration EV Bus Program

## ■ Highlights

### ► Santa Barbara

- ▲ 1 million passengers in 1st year
- ▲ 435,000 miles; 81,000 hours
- ▲ 3.8 million passengers total
- ▲ 15 buses on order



# Federal Transit Administration

## EV Bus Program

### Continued

- ▶ Electric & Hybrid Electric Bus R&D
  - ▲ Calstart
  - ▲ NY State Consortium
  - ▲ ATTB
  - ▲ DUETS



# ISTEA Resources

## Intermodal Surface Transportation Act of 1991

- FTA EV bus program
- Federal Highway CMAQ funds
- Coordinate with Clean Air Act
- Re-authorization in 1997



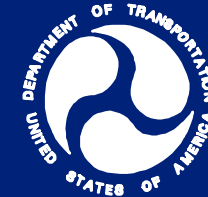


## Federal Assistance

- |                         |                           |
|-------------------------|---------------------------|
| ■ Placement of EVs      | DOE; GSA                  |
| ■ EV Testing            | DOE; DOT                  |
| ■ Funding               | Clean Cities;<br>DOE; DOT |
| ■ Technical Assistance  | DOE                       |
| ■ Safety Standards      | DOT/NHTSA                 |
| ■ Information Materials | Hotline / DOE             |



# How to Reach Us



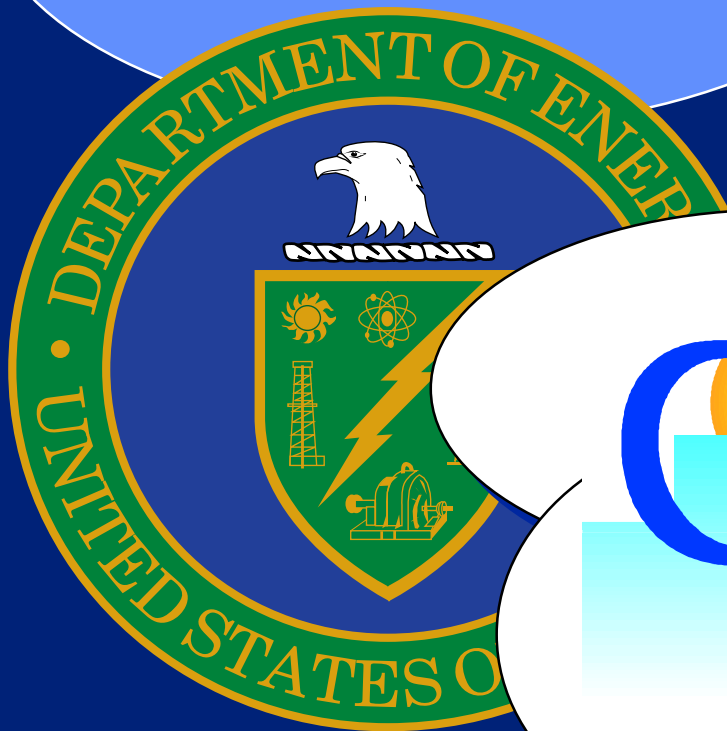
- Clean Cities
  - ▶ 1-800-CCITIES
- Data Center
  - ▶ <http://www.afdc.doe.gov>
- Hotline
  - ▶ 1-800-423-1DOE
- Headquarters
  - ▶ Marcy Rood 202-586-8161
  - ▶ [afv.deployment@hq.doe.gov](mailto:afv.deployment@hq.doe.gov)
- Research & Special Projects
  - ▶ Bill Vincent 202-366-4831
- FTA
  - ▶ Shang Hsiung 202-366-0241
- FHWA
  - ▶ Mike Savonis 202-366-2080
- NHTSA
  - ▶ Charles Hott 202-366-0247

EV Market Launch

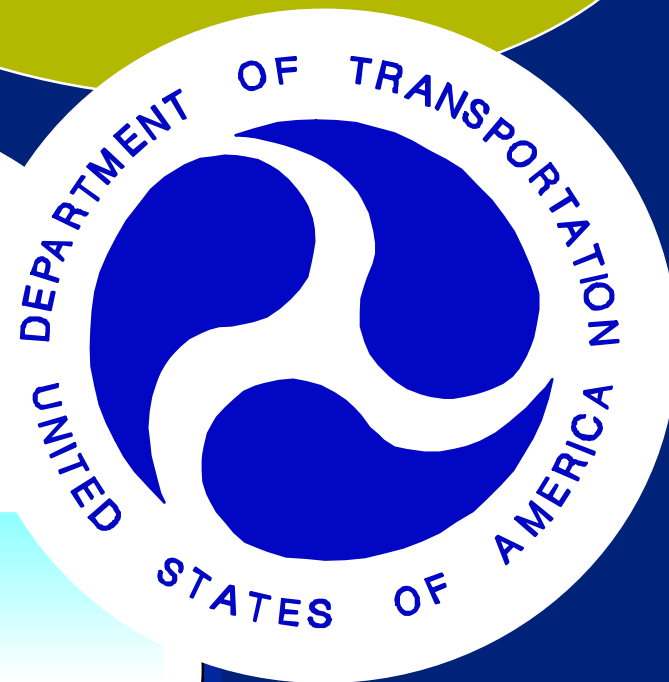
## Electric Vehicles: Linking Federal and Local Objectives

ETC

EVAA



Clean  
Cities



EV Market Launch